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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/074,033	02/14/2002	Jonathan B. Sadowsky	219.40024X00	5657

7590 09/24/2003

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EXAMINER

QUILLEN, ALLEN E

ART UNIT	PAPER NUMBER
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2676

DATE MAILED: 09/24/2003

7

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/074,033

Applicant(s)

SADOWSKY ET AL.

Examiner

Allen E. Quillen

Art Unit

2676

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-24 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-24 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on ____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 5.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). ____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1- 24 are rejected under 35 U.S.C. 102(e) as being anticipated by Chin, et al, U.S. Patent 6,608,625.

3. Regarding claim 11, representative of claims 1, 2, 20, 24, Chin discloses a computer graphics system (Figures 1A, 17-21; Column 26, lines 23-24) comprising: a memory to store image data (Column 41, lines 39-44, 60-66; Column 42, line 55 through Column 44, line 45); a bin pointer list (Column 44, lines 35-37) to store information regarding a plurality of image subscenes (Column 3, lines 1-23); and a pointer cache system (Figures 1A, 17, element 108, Column 38, lines 35-47) to maintain data regarding said plurality of image subscenes, wherein said pointer cache system comprises a tag array section and a data array section; [further claim 20] making a data request to a pointer cache system to determine if said pointer cache system contains information relating to said data request; and obtaining information from said pointer cache system (Column 20, lines 1-14; Column 39, lines 40-47; Figure 18, Column 40, lines 13-15).

4. Regarding claim 3, representative of claim 12, Chin discloses a graphics controller of claim 1, wherein each cache tag in said cache tag array section corresponds to at least four pieces of cache data in said cache array section (Figures 13-14, 4 bytes, Column 27, lines 27-33; Column 29, lines 3-6).

5. Regarding claim 4, representative of claim 13, Chin discloses a graphics controller of claim 2, wherein said cache tag array section receives a data request and determines if said cache data array contains information related to said data request (Column 13, lines 15-17, 64-66; Column 20, lines 1-14; Column 27, lines 16-26).

6. Regarding claim 5, representative of claims 14 and 22, Chin discloses a graphics controller of claim 4, wherein said pointer cache system further comprises a decoupling section to create a non-blocking pointer cache system (Figure 9, Column 30, line 40 through Column 31, line 3).

7. Regarding claim 6, representative of claim 15, Chin discloses a graphics controller of claim 5, wherein if said cache data array contains information related to said data request then said data request is placed in said decoupling section (Column 30, lines 18-20, 40-55, 66 through Column 31, line 3).

8. Regarding claim 7, representative of claims 16 and 21, Chin discloses a graphics controller of claim 5, wherein if said cache data array does not contain information related to

said data request then a data request is made for the missing data and the data request is placed in said decoupling section (Column 30, lines 62-66, *refill control*, Figure 18, Column 40, lines 11-18).

9. Regarding claim 8, representative of claims 9, 17-18, 23, Chin discloses a graphics controller of claim 5, wherein said pointer cache system performs a recovery operation following an out of memory condition (Column 40, line 18 through Column 41, line 38).

10. Regarding claim 10, representative of claim 19, Chin discloses a graphics controller of claim 1, wherein said graphic controller vertically arranges said subscenes (Column 49, lines 18-22, 63-67).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Allen E. Quillen whose telephone number is (703) 605-4584. The examiner can normally be reached on Tuesday – Friday, 8:30am – noon and 1:00 - 4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew C. Bella, can be reached on (703) 308-6829.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

Or FAX'd to:

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(703) 872-9314 (for Technology Center 2600 only)

Hand delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Sixth Floor (Receptionist), Arlington, Virginia

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number (703) 305-9600 or (703) 305-3800.

Allen E. Quillen
Patent Examiner
Art Unit 2676

***September 15, 2003



MATTHEW C. BELLA
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600